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KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT

PROCEDURE FOR SAMPLE LOGGING

Procedure #: UICLPG-9

(3/03)

- 1. Samples shall be collected at 10 foot intervals or at an interval approved by the department.
- 2. Wet Sample Collection: Place approximately 3 tablespoons of cuttings in cloth sample bags.
- 3. Information required for the sample bag label shall include: facility name, well number, location, depth of sample was taken, date, and person collecting the sample.
- 4. Dry Sample: The samples shall be washed with water and allowed to dry. Approximately one tablespoon of dry cuttings shall be placed in a 2 ½ x 4 1/4 manilla sample envelope. The envelope label shall include facility name, well number, location, depth of sample and name of person analyzing sample.
- 5. Samples shall be analyzed with a binocular microscope or other method that provides magnification great enough to reveal the essential structure and texture of the samples.
- 6. A sample log shall be submitted to the department within 30 days of well completion.
- 7. The header on the sample log shall provide the facility name, well number, location, date and name of logger.
- 8. The logger shall use acceptable abbreviations and symbols in accordance with the "Sample Examination Manual" by Roger Swanson; AAPG Methods in Exploration, No. 1.
- 9. The order of information for the written description is as follows:
 - Rock type-A 10% or 15% dilute hydrochloric acid can be used to determine the presence of carbonates and to etch samples so that essential structure and texture can be more readily identified.
 Dolomite/limestone can be identified with the dilute hydrochloric acid or with Alizarin Red S.
 - 2. Color-Best achieved by describing wet sample under 10X magnification.
 - 3. Texture-Includes grain size, roundness, sphericity, sorting.
 - 4. Type of cement or matrix.
 - 5. Fossils or other accessories including pyrite, feldspar, mica, chert, etc.
 - 6. Sedimentary structures if present.
 - 7. Porosity-Can be detected with 10X magnification but may need higher magnification for type of porosity such as intercrystalline, intergranular, vuggy, fracture, etc. Porosity an best be seen with dry samples.
- 10. Comments concerning sample quality, percent of cavings, lag time, shall be included at the bottom of the log.